

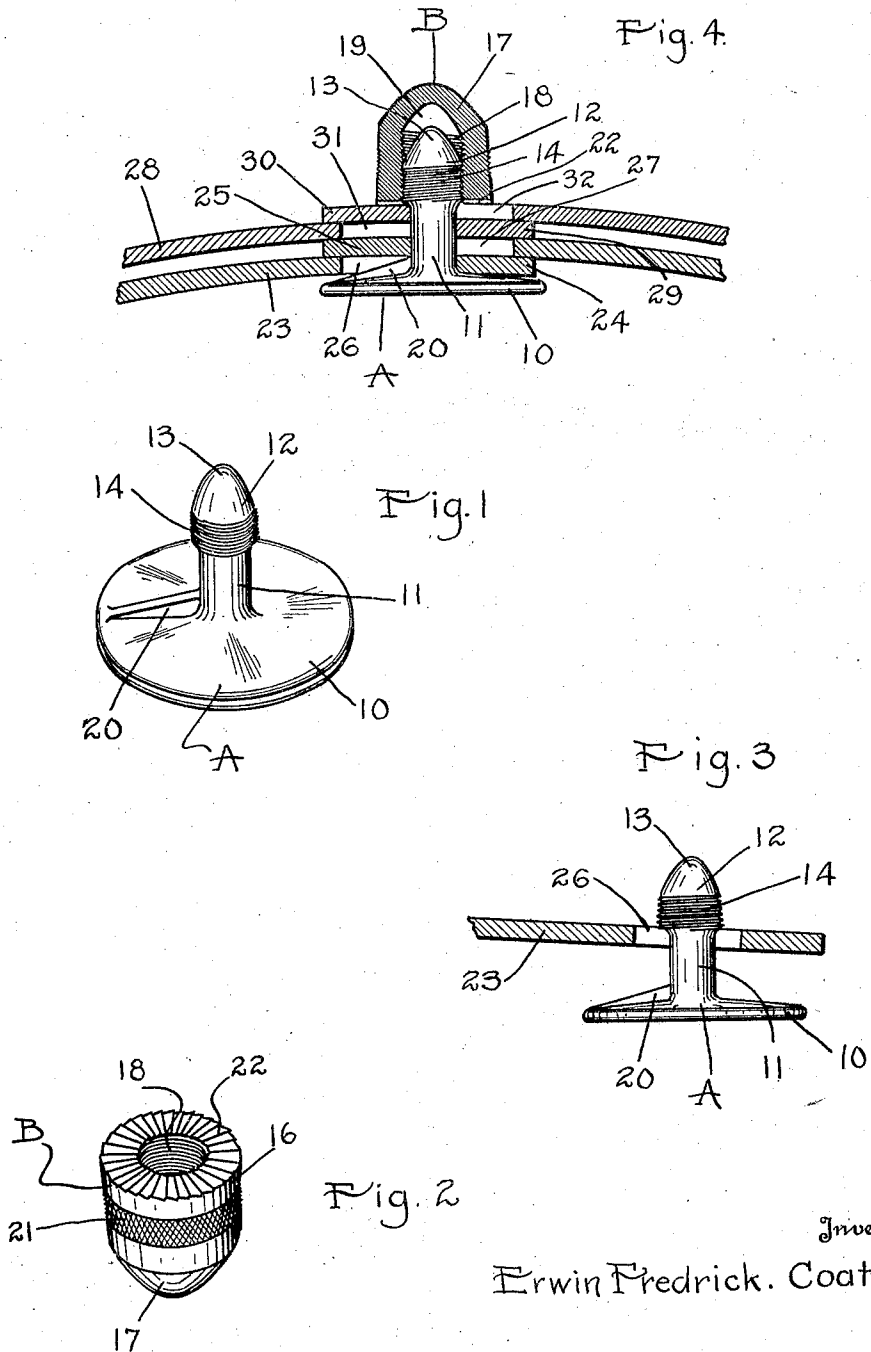
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COLLAR BUTTON

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## COLLAR BUTTON.

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My invention relates to collar buttons and particularly to the type of collar button adapted to be used for holding the collar attached to the neck band of the shirt at the front thereof.

An object of the invention resides in providing a collar button having a shank which may be easily and readily inserted into the button holes of the collar and neck band and to provide a cap which may be mounted upon the end of said collar button to securely hold the collar attached to the shirt.

Another object of the invention resides in forming a head at the end of said shank which is threaded to receive said cap which head is formed with a conical shaped point serving to direct the button through the button holes and which is further formed of a diameter slightly larger than that of said shank to prevent the button from becoming accidentally disengaged while the collar is being attached to the shirt.

A still further object resides in forming the edge of said cap engaging the collar with a number of serrations which serve to hold the cap in place preventing it from unscrewing and becoming lost.

A feature of the invention resides in forming a tongue on said collar button which is adapted to project into the button hole of the collar band to prevent the button from turning when the cap is screwed upon said head.

With the foregoing and other objects in view, which will appear in the following description, the invention resides in the novel combination and arrangement of parts and in the details of construction herein-after described and claimed.

In the drawings illustrating my invention in one form:

Fig. 1 is a perspective view of my improved collar button.

Fig. 2 is a perspective view of the cap used in connection with the same.

Fig. 3 is a sectional view showing the application of the collar button to the button hole of a neck band.

Fig. 4 is a sectional view similar to Fig. 3 illustrating the neck band and collar positioned upon the collar button with the cap screwed upon the same and holding said collar attached to the neck band.

With the ordinary collar button, considerable inconvenience is encountered in attempting to insert the same into the button

holes, particularly when a starched shirt is used and when the neck band fits fairly tightly around the neck of the user. Even after the collar has been attached to the neck band by the ordinary collar button, the user frequently encounters great discomfort, due to the fact that the collar button is frequently twisted causing the back of the same to become lodged in the throat of the user. In addition, the collar is insecurely held in place permitting the collar to rise up above the band as well as to become entirely disengaged from the button. My invention overcomes these disadvantages by providing a structure whereby the collar and neck band may be securely held relative to one another to prevent movement or disengagement of the collar from the band. My invention further permits of using the same collar button with any thickness of neck band or collar and allows the button to be snugly drawn up against the shirt so as to eliminate the protruding of any portions of the same inwardly beyond the neck band, which might in any way discomfort the user.

In the embodiment of the invention illustrated in the drawings, I employ a collar button shown in Fig. 1 which is indicated in its entirety at A. This collar button is adapted to be inserted in the button holes of a neck band and collar in the usual manner and has co-operating with it, a cap B shown in detail in Fig. 2. Collar button A comprises a flanged back 10 of disc-shaped formation which has issuing outwardly from it along the center thereof a shank 11, which protrudes beyond the same a distance sufficient to hold the maximum thicknesses of neck band and collar with which the button is to be used. Upon the end of the shank 11 is formed an elongated head 12 which is of a slightly greater diameter than shank 11 and is formed with a conical shaped point 13. Adjacent this point, head 12 is formed with threads 14 which commence at the point 13 and extend to the end of said head where it meets with shank 11. The point 13 at its largest portion, is of the same diameter as the external diameter of threads 14 so that as the button is inserted into the button holes said point serves to spread apart the portions of the neck band or collar adjacent said button hole so as to permit of readily inserting said collar button into the same. The shank 11 adjacent the threads 14 as before stated is of less diame-

ter than the external diameter of said threads forming therewith a shoulder 15 so that once the collar button is inserted into the button hole said collar button is prevented from accidental disengagement by means of said shoulder prior to the attachment of cap B thereto.

Cap B consists of a tube-like portion 16 which is closed at one end by a dome shaped end portion 17. Said cap is internally threaded at 18 to screw upon the threads 14 formed on collar button A. It will be noted that the threads 18 are of a greater extent than the threads 14 which permits cap B to be screwed down upon the collar button A beyond the shoulder 15, thereby permitting the button to be used with different thicknesses of neck bands and collars. To facilitate screwing and tightening the cap B upon the button A said cap is knurled along a portion of its periphery as indicated at 21. Within the dome shaped portion 17 is formed a pocket 19 which is adapted to receive the point 13 of collar button A when said cap is screwed down upon the threads 14 as far as it will go. This pocket provides a space in which said point 13 may lie when the cap is in its extreme position, thereby allowing greater adjustment of said cap upon the button.

To prevent rotation of the button A when the cap B is screwed upon it, I provide a tongue 20 which issues upwardly from the back 10 adjacent the shank 11. This tongue is formed relatively flat and projects a distance up above said back substantially equal to the thickness of the average neck band. This tongue is adapted to be inserted into the button hole of the neck band and prevents the rotation of the collar button when the cap B is screwed thereon.

To prevent the cap B from becoming accidentally disengaged from the collar button, the same is formed along the end of the tubular portion 16 with a number of serrations 22 which are adapted to engage the portion of the collar adjacent the button hole thereof and to hold said cap by frictional engagement with said serrations so as to prevent rotation of said cap. It will be noted that these serrations are inclined at such an angle that the cap may be readily screwed upon the button to clamp the collar against the neck band without appreciable resistance. On the other hand to unscrew the said cap requires effort slightly in excess of that required to apply it so that the cap does not become unintentionally loosened and in this manner drop off and become lost.

In using the device the procedure is quite similar to the customary procedure used with the ordinary collar button. For the purpose of illustrating the application of the collar button to the neck band and col-

lar of a shirt, I have illustrated in Fig. 4 a neck band 23 which is formed with the usual over-lapping ends 24 and 25 having button holes 26 and 27 formed in the same. In addition I have illustrated a collar 28 formed with over-lapping flaps 29 and 30 which are similarly provided with button holes 31 and 32. In applying the button the same is first inserted into the button hole 26 of end 24 of neck band 23 by forcing the same apart through the agency of the point 13 and then progressively advancing the button through the button hole until the same surrounds the shank 11. The button is now drawn toward the outer end of the button hole and rotated until the tongue 20 is in alignment with said button hole. The end 24 of neck band 23 is then pressed tight against the back 10 bringing the tongue 20 into button hole 26. The end 25 of neck band 23 is next attached in a similar manner and the flaps 29 and 30 of the collar are successively mounted upon the shank 11 in the same manner. After all of these members are in place, cap B is placed over the head 12 and screwed upon the threads 14 until these members become firmly clamped together. In this position the collar is fixed relative to the neck band so that the same may not rotate or move relative to the neck band. At the same time the back 10 of button A may be drawn tightly against the neck band 23 so as to cause it to lie substantially flush therewith, leaving the inner surface of the neck band free from any protrusion which might in any way give discomfort to the user.

My improved collar button is highly advantageous in that it securely holds the collar attached to the neck band of the shirt. The device is readily and easily used when attached to the shirt and collar, fits neatly and snugly adjacent the same. After the button has been applied the cap B protrudes but a short distance while the head of the ordinary collar button projects beyond the collar. This cap may be ornamentally constructed or set with jewels to form an attractive article when a bow tie is being worn by the user.

Changes in the specific form of my invention, as herein disclosed, may be made within the scope of what is claimed without departing from the spirit of my invention.

Having described my invention, what I claim as new and desire to protect by Letters Patent is:

1. A collar button comprising a flanged back, a shank issuing outwardly therefrom, an elongated head formed at the end of said shank terminating in a conical shaped point, said head being of a diameter slightly greater than that of said shank and forming a shoulder therewith, threads formed on said shank commencing at the larger end of said point and extending to said shoulder, the ex-

ternal diameter of said threads being equal to that of the largest portion of said point and a cap adapted to be screwed on said threads.

5 2. A collar button comprising a flanged back and a threaded shank adapted to be inserted into a button hole or a neck band, a tongue formed on said back adapted to be lodged within said button hole to prevent the rotation of said shank and a cap screwable on said shank.

10 3. A collar button comprising a flanged back and a cylindrical threaded shank concentrically issuing outwardly from said flange adapted to be inserted into a button hole of a neck band, a tongue formed on said back commencing at the periphery thereof and issuing outwardly from said back and extending toward said shank adapted to be

lodged within said button hole to prevent the rotation of said shank and a cap screwable on said shank.

4. A collar button comprising a flanged back and a cylindrical threaded shank concentrically issuing outwardly from said flange adapted to be inserted into a button hole of a neck band, a tongue formed on said back commencing at the periphery thereof and issuing outwardly from said back and extending toward said shank adapted to be lodged within said button hole to prevent the rotation of said shank, said tongue increasing in depth towards said shank, and a cap screwable on said shank.

In testimony whereof, I have signed my name to this specification.

ERWIN FREDRICK COATES.